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PATENT
Customer No. 22,852
Attorney Docket No. 06720.0086-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Allowance Date: March 4, 2005
Chyh-Yih CHANG)
Application No.: 10/670,207) Group Art Unit: 2822
Filed: September 26, 2003) Confirmation No.: 4486
) Examiner: David Graybill

For: BI-DIRECTIONAL SILICON CONTROLLED RECTIFIER FOR ELECTROSTATIC
DISCHARGE PROTECTION

BOX ISSUE FEE

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

REQUEST FOR INITIALED FORM PTO-1449

An Information Disclosure Statement (IDS) and Form PTO-1449 (PTO-1449) were filed in the U.S. Patent and Trademark Office on September 26, 2003. To date, applicant has not received from your Office an initialed copy of the PTO-1449 filed on September 26, 2003, indicating that the documents cited in this IDS were considered by the Examiner. A copy of the IDS and PTO-1449 as filed, as well as the date-stamped receipt card from the U.S. Patent and Trademark Office are enclosed for your reference.

The examiner is respectfully requested either to send us an initialed copy of the PTO-1449 filed on September 26, 2003, or issue a Supplemental Notice of Allowability acknowledging both receipt and consideration of the documents cited.

If any fees are due in connection with the filing of this request, please charge any such fees to our deposit account no. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: 3/13/05 ✓

By: _____

Richard V. Burgujian
Reg. No. 31,744

A circular stamp from the OIPE Patent & Trademark Office. The text "OIPE" is at the top, "JCS98" is on the right, "PATENT & TRADEMARK OFFICE" is at the bottom, and "MAR 17 2005" is in the center.

In re Application of:

Chyh-Yih CHANG

**1.53(b) Divisional of Appl.
No. 10/138,405, filed May 6, 2002**

Filed: Herewith

**For: BI-DIRECTIONAL SILICON
CONTROLLED RECTIFIER FOR
ELECTROSTATIC DISCHARGE
PROTECTION**

Parent Group Art Unit: 2811

Parent Examiner: Nadav, O.

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Office the documents listed on the attached PTO form 1449. This Information Disclosure Statement is being filed together with this Divisional application.

Copies of the listed documents were previously submitted in a prior application, application no. 10/138,405, filing date May 6, 2002, upon which applicant relies for the benefits provided in 35 U.S.C. § 120. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

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This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Office applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: September 25, 2003

By: Yitai Hu Reg 24,014
for Yitai Hu
Reg. No. 40,653

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GARRETT &
DUNNER LLP

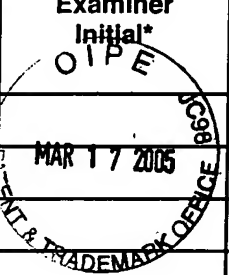
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INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No. 06720.0086-01	Serial No. TO BE ASSIGNED
Applicant Chyh-Yih CHANG	
Filing Date September 25, 2003	Group: TO BE ASSIGNED

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	6,258,634	07/10/2001	Wang et al.			
	5,910,874	06/08/1999	Iniewski et al.			
	5,646,808	07/08/1997	Nakayama			
	5,519,242	05/21/1996	Avery			
	5,631,793	05/20/1997	Ker et al.			
	5,811,857	09/22/1998	Assaderaghi et al.			
	5,502,328	03/26/96	Chen et al.			
	5,581,104	12/03/96	Lowrey et al.			
	5,990,520	11/23/99	Noorlag et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No

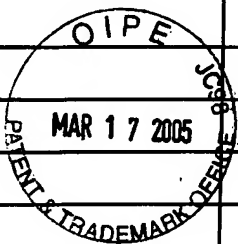
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	M-D. KER, et al., "CMOS On-Chip ESD Protection Design with Substrate-triggering Technique," Proc. of ICECS, Vol. 1, pp. 273-276, 1998
	C. Duvvury et al., "Dynamic Gate Coupling for NMOS for Efficient Output ESD Protection", Proc. of IRPS, pp. 141-150, 1992

Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	
<div style="display: flex; justify-content: space-between;"> Form PTO 1449 Patent and Trademark Office - U.S. Department of Commerce </div>	

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	06720.0086-01	Serial No.	TO BE ASSIGNED
Applicant	Chyh-Yih CHANG		
Filing Date	September 25, 2003	Group:	TO BE ASSIGNED

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,907,462	05/25/99	Chatterjee et al.			
	5,932,918	08/03/99	Krakauer			
	6,015,992	01/18/00	Chatterjee et al.			
	5,453,384	09/26/95	Chatterjee			

FOREIGN PATENT DOCUMENTS						
	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	N. K. Verghese and D. Allstot, "Verification of RF and Mixed-Signed Integrated Circuits for Substrate Coupling Effects", in <i>Proc. of IEEE Custom Integrated Circuits Conf.</i> , 1997, pp. 363-370
	M.Xu, D. Su, D. Shaeffer, T.Lee, and B. Wooley, "Measuring and Modeling the Effects of Substrate Noise on LNA for a CMOS GPS Receiver," <i>IEEE Journal of Solid-State Circuits</i> , vol. 36, pp. 473-485, 2001.
	R. Gharpurey, "A Methodology for Measurement and Characterization of Substrate Noise in High Frequency Circuits," in <i>Proc. of IEEE Custom Integrated Circuits Conf.</i> , 1999, pp. 487-490.
	M. Nagata, J. Nagai, K. Hijikata, T. Morie, and A. Iwata, "Physical Design Guides for Substrate Noise Reduction in CMOS Digital Circuits," <i>IEEE Journal of Solid-State Circuits</i> , vol. 36, pp. 539-549, 2001.
	M.-D. Ker, T.-Y. Chen, C.-Y. Wu, and H.-H. Chang, "ESD Protection Design on Analog Pin With Very Low Input Capacitance for High-Frequency or Current-Mode Applications," <i>IEEE Journal of Solid-State Circuits</i> , vol. 35, pp. 1194-1199, 2000.
	M.-D. Ker, "Whole-Chip ESD Protection Design with Efficient VDD-to-VSS ESD Clamp Circuit for Submicron CMOS VLSI," <i>IEEE Trans. on Electron Devices</i> , vol. 46, pp. 173-183, 1999

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Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No.	06720.0086-01	Serial No.	TO BE ASSIGNED
Applicant	Chyh-Yih CHANG		
Filing Date	September 25, 2003	Group:	TO BE ASSIGNED

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U.S. PATENT DOCUMENTS						
Examiner Initial	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	6,081,002	06/27/2000	Amerasekera et al			
	5,754,381	05/19/1998	Ker			
	5,465,189	11/07/1995	Polgreen et al.			
	5,225,702	07/06/1993	Chatterjee			
	5,012,317	04/30/1991	Rountre			
	4,939,616	07/03/1990	Rountree			

FOREIGN PATENT DOCUMENTS						
	Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	C. Richier, P. Salome, G. Mabboux, I. Zaza, A. Juge, and P. Mortini, "Investigation on Different ESD Protection Strategies Devoted to 3.3V RF Applications (2 GHz) in a 0.18µm CMOS Process," in Proc. of EOS/ESD Symp., 200, pp. 251-259.
	T.-Y. Chen and M.-D. Ker, "Design on ESD Protection Circuit With Low and Constant Input Capacitance," in Proc. of IEEE Int. Symp. on Quality Electronic Design, 2001, pp. 247-247.
	M.-D. Ker, T.-Y. Chen, C.-Y. Wu, and H.-H. Chang, "ESD Protection Design on Analog Pin With Very Low Input Capacitance for RF or Current-Mode Applications," <i>IEEE Journal of Solid-State Circuits</i> , Vol. 35, pp. 1194-1199, 2000.

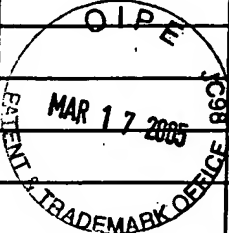
Examiner	Date Considered
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Atty. Docket No.	06720.0086-01	Serial No.	TO BE ASSIGNED
Applicant	Chyh-Yih CHANG		
Filing Date	September 25, 2003	Group:	TO BE ASSIGNED

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,629,544	05/13/97	Voldman et al.			
	6,034,397	03/07/00	Voldman			
	5,940,258	08/17/99	Duvvury			
	5,807,791	09/15/98	Bertin et al			
	5,719,737	02/17/98	Maloney			
	5,654,862	08/05/97	Worley et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	S.Voldman, et al. , "Semiconductor Process and Structural Optimization of Shallow Trench Isolation-Defined and Polysilicon- Bound Source/Drain Diodes for ESD Networks," in Proc. of EOS/ESD Symp., 1998, pp. 151-160
	S. Voldman, et al., "Analysis of Snubber-Clamped Diode-String Mixed Voltage Interface ESD Protection Network for Advanced Microprocessors," in Proc. of EOS/ESD symposium, 1995, pp. 43-61.
	M.J. Pelgrom, et al., "A 3/5 V Compatible I/O Buffer," IEEE Journal of Solid-State Circuits, vol.30, no. 7, pp.823-825, July 1995.
	G.P. Singh, et al., "High-Voltage-Tolerant I/O Buffers with Low-Voltage CMOS Process," IEEE Journal of Solid-State Circuits, vol.34, no. 11, pp. 1512-1525, Nov. 1999.
	H. Sanchez, et al., "A Versatile 3.3/2.5/1.8-V CMOS I/O Driver Built in 02. - μ m, 3.5-nm Tox, 1.8 -V CMOS Technology, " IEEE Journal of Solid-State Circuits, vol.34 no. 11.pp. 1501-1511, Nov. 1999

Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

R-113-4064-PWL



PLEASE STAMP TO ACKNOWLEDGE RECEIPT OF THE FOLLOWING:

In Re Application of: Chyh-Yih CHANG

Application No.: NEW

Filed: September 25, 2003

Group Art Unit: TO BE ASSIGNED

Examiner: TO BE ASSIGNED

For: DI-DIRECTIONAL SILICON CONTROLLED RECTIFIER FOR ELECTROSTATIC DISCHARGE PROTECTION

1. Request for Filing Divisional Application Under 37 C.F.R. §1.53(b) (4 pages);
2. Preliminary Amendment (5 pages);
3. Copy of Original Application, including Specification, Claims and Abstract (18 pages total);
4. Copy of Original Drawings: Figs. 1-9 (8 sheets);
5. Copy of Declaration and Power of Attorney (2 pages);
6. Information Disclosure Statement Under 37 C.F.R. §1.97(b), including Form PTO-1449; and
7. Check in the amount of \$750.00

Dated: September 26, 2003

Docket No.: 06720.0086-01

YH/QY/V. Simmons - Mail Drop 848



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929-03

9/29/03